

[Code of Federal Regulations]

[Title 49, Volume 2, Parts 100 to 185]

[Revised as of October 1, 1999]

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.1 Purpose and scope.

(a) This subchapter prescribes requirements of the Department of Transportation governing--

(1) The offering of hazardous materials for transportation and transportation of hazardous materials in interstate, intrastate, and foreign commerce by rail car, aircraft, motor vehicle, and vessel (except as delegated at Sec. 1.46(t) of this title), (except that until October 1, 1998, this subchapter applies to intrastate carriers by motor vehicle only in so far as this subchapter relates to hazardous waste, hazardous substances, flammable cryogenic liquids in portable tanks and cargo tanks, and marine pollutants).

(2) The representation that a hazardous material is present in a package, container, rail car, aircraft, motor vehicle, or vessel.

(3) The manufacture, fabrication, marking, maintenance, reconditioning, repairing, or testing of a packaging or container which is represented, marked, certified, or sold for use in transportation of hazardous materials.

(4) The use of terms and symbols prescribed in this subchapter for the marking, labeling, placarding and description of hazardous materials and packagings used in their transport.

(b) Any person who, under contract with any department, agency, or instrumentality of the executive, legislative, or judicial branch of the Federal Government, transports, or causes to be transported or shipped, a hazardous material or manufactures, fabricates, marks, maintains, reconditions, repairs, or tests a package or container which is represented, marked, certified, or sold by such person as qualified for use in the transportation of a hazardous material shall be subject to and comply with all provisions of the Federal hazardous materials transportation law, all orders and regulations issued thereunder, and all other substantive and procedural requirements of Federal, State, and local governments and Indian tribes (except any such requirements that have been preempted by the Federal hazardous materials transportation law or any other Federal law), in the same manner and to the same extent

as any person engaged in such activities that are in or affect commerce is subject to such provisions, orders, regulations, and requirements.

(c) Any person who knowingly violates a requirement of the Federal hazardous material transportation law, an order issued thereunder, subchapter A, an exemption issued under subchapter A, of this subchapter, is liable for a civil penalty of not more than \$25,000 (\$27,500 for a violation that occurs after January 21, 1997) and not less than \$250 for each violation. When the violation is a continuing one and involves the transporting of hazardous materials or the causing of them to be transported or shipped, each day of the violation constitutes a separate offense. Any person who knowingly violates Sec. 171.2(g) of this subchapter or willfully violates a provision of the Federal hazardous material transportation law or an order or regulation issued thereunder shall be

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fined under Title 18, United States Code, or imprisoned for not more than 5 years, or both.

[Amdt. 171-150, 62 FR 1215, Jan. 8, 1997, as amended by Amdt. 171-152, 62 FR 2977, Jan. 21, 1997; Amdt. 171-154, 62 FR 49566, Sept. 22, 1997]

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PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.2 General requirements.

(a) No person may offer or accept a hazardous material for transportation in commerce unless that person is registered in conformance with subpart G of part 107 of this chapter, if applicable, and the hazardous material is properly classed, described, packaged, marked, labeled, and in condition for shipment as required or authorized by applicable requirements of this subchapter, or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter.

(b) No person may transport a hazardous material in commerce unless that person is registered in conformance with subpart G of part 107 of this chapter, if applicable, and the hazardous material is handled and transported in accordance with applicable requirements of this subchapter, or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter.

(c) No person may represent, mark, certify, sell, or offer a packaging or container as meeting the requirements of this subchapter or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter, governing its use in the transportation in commerce of a hazardous material, whether or not it is used or intended to be used for the transportation of a hazardous material, unless the packaging or container is manufactured, fabricated, marked, maintained, reconditioned, repaired and retested, as appropriate, in accordance with applicable requirements of this subchapter, or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter.

(d) The representations, markings, and certifications subject to the prohibitions of paragraph (c) of this section include, but are not limited to--

(1) Specification identifications that include the letters ``ICC,`` ``DOT,`` ``CTC,`` ``MC,`` or ``UN``;

(2) Exemption, approval, and registration numbers that include the letters ``DOT,`` ``EX,`` ``M,`` or ``R``; and

(3) Test dates associated with specification, registration, approval, retest or exemption markings indicating compliance with a test or retest requirement of this subchapter, or an exemption, an approval or a registration issued under this subchapter or subchapter A of this chapter.

(e) When a person performs a function covered by or having an effect on a specification prescribed in part 178, 179 or 180 of this subchapter, an approval issued under this subchapter, or an exemption issued under subpart B of this chapter, that person must perform the function in accordance with that specification, approval, or exemption, as appropriate.

(f) No person shall, by marking or otherwise, represent that--

(1) A container or package for the transportation of hazardous materials is safe, certified, or in compliance with the requirements of this title unless it meets the requirements of all applicable regulations issued under the Federal hazardous material transportation law; or

(2) A hazardous material is present in a package, container, motor vehicle, rail car, aircraft, or vessel, if the hazardous material is not present.

(g) No person shall unlawfully alter, remove, deface, destroy, or otherwise tamper with--

(1) Any marking, label, placard, or description on a document required by the Federal hazardous material transportation law, or the regulations issued thereunder; or

(2) Any package, container, motor vehicle, rail car, aircraft, or vessel used for the transportation of hazardous materials.

(h) No person shall--

(1) Falsify or alter an exemption, approval, registration or other grant of authority issued under this subchapter or subchapter A of this chapter; or

(2) Offer a hazardous material for transportation or transport a hazardous material in commerce, or represent, mark, certify, or sell a packaging or container, under a false or altered exemption, approval, registration or other grant of authority issued

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under this subchapter or subchapter A of this chapter.

[Amdt. 171-70, 48 FR 2655, Jan. 20, 1983, as amended by Amdt. No. 171-100, 54 FR 25004, June 12, 1989; Amdt. 171-12, 56 FR 8624, Feb. 28, 1991; Amdt. No. 171-115, 57 FR 30631, July 9, 1992; 57 FR 37902, Aug. 21, 1992; Amdt. No. 171-120, 58 FR 33305, June 16, 1993; Amdt. 171-2, 59 FR 49132, Sept. 26, 1994; Amdt. 171-141, 61 FR 21101, May 9, 1996; 64 FR 10752, Mar. 5, 1999]

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CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.3 Hazardous waste.

(a) No person may offer for transportation or transport a hazardous waste (as defined in Sec. 171.8 of this subchapter) in interstate or intrastate commerce except in accordance with the requirements of this subchapter.

(b) No person may accept for transportation, transport, or deliver a hazardous waste for which a manifest is required unless that person:

(1) Has marked each motor vehicle used to transport hazardous waste in accordance with Sec. 390.21 or Sec. 1058.2 of this title even though placards may not be required;

(2) Complies with the requirements for manifests set forth in Sec. 172.205 of this subchapter; and

(3) Delivers, as designated on the manifest by the generator, the entire quantity of the waste received from the generator or a transporter to:

(i) The designated facility or, if not possible, to the designated alternate facility;

(ii) The designated subsequent carrier; or

(iii) A designated place outside the United States.

Note: Federal law specifies penalties up to \$250,000 fine for an individual and \$500,000 for a company and 5 years imprisonment for the willful discharge of hazardous waste at other than designated facilities. 49 U.S.C. 5124.

(c) If a discharge of hazardous waste or other hazardous material occurs during transportation, and an official of a State or local government or a Federal agency, acting within the scope of his official responsibilities, determines that immediate removal of the waste is necessary to prevent further consequence, that official may authorize the removal of the waste without the preparation of a manifest. [Note: In such cases, EPA does not require carriers to have EPA identification numbers.]

Note 1: EPA requires shippers (generators) and carriers (transporters) of hazardous wastes to have identification numbers which must be displayed on hazardous waste manifests. See 40 CFR parts 262 and 263. (Identification number application forms may be obtained from EPA regional offices.)

Note 2: In 40 CFR part 263, the EPA sets forth requirements for the cleanup of releases of hazardous wastes.

[Amdt. 171-53, 45 FR 34586, May 22, 1980, as amended by Amdt. 171-53, 45 FR 74648, Nov. 10, 1980; Amdt. 171-78, 49 FR 10510, Mar. 20, 1984; Amdt. 171-107, 54 FR 40068, Sept. 29, 1989; Amdt. 171-111, 55 FR 52466, Dec. 21, 1990; 56 FR 66157, Dec. 20, 1991; Amdt. 171-2, 59 FR 49132, Sept. 26, 1994; Amdt. 171-141, 61 FR 21102, May 9, 1996]

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PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.4 Marine pollutants.

(a) Except as provided in paragraph (c) of this section, no person may offer for transportation or transport a marine pollutant, as defined in Sec. 171.8, in intrastate or interstate commerce except in accordance with the requirements of this subchapter.

(b) The requirements of this subchapter for the transportation of marine pollutants are based on the provisions of Annex III of the 1973 International Convention for Prevention of Pollution from Ships, as modified by the Protocol of 1978 (MARPOL 73/78).

(c) Exceptions. Except when transported aboard vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

[Amdt. 171-116, 57 FR 52934, Nov. 5, 1993, as amended by Amdt. 107-39, 61 FR 51337, Oct. 1, 1996]

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PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.6 Control numbers under the Paperwork Reduction Act.

(a) Purpose and scope. This section collects and displays the control numbers assigned to the HMR collections of information by the Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995. This section complies with the requirements of 5 CFR 1320.7(f), 1320.12, 1320.13 and 1320.14 (OMB regulations implementing the Paperwork Reduction Act of 1995)

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for the display of control numbers assigned by OMB to collections of information of the HMR.

(b) OMB control numbers. The table in paragraph (b)(2) of this section sets forth the control numbers assigned to collection of information in the HMR by the Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995.

(1) Column 1 lists the OMB control number assigned to the HMR collections of information. Column 2 contains the Report Title of the approved collection of information. Column 3 lists the part(s) or section(s) in 49 CFR identified or described in the collection of information.

(2) Table.

Current OMB control No. identified	Title	Title 49 CFR part or section where and described

2137-0014.....	Cargo Tank Specification Requirements.....	Secs. 107.503, 107.504, 178.320, 178.337, 178.338, 178.345, 178.346, 178.347, 178.348, 180.409, 180.417.
2137-0018.....	Inspection and Testing of Portable Tank and IBC's.....	Secs. 173.24, 173.32, 173.32 (b) (e), 173.32a, 173.32b, 173.32c, 178.3, 178.245, 178.245-1 178.245-6, 178.255, 178.255-1, 178.270, 178.271, 178.272, 178.702, 178.703, 178.801, 178.810, 178.813, 180.352.
	(a),	
2137-0022.....	Testing, Inspection, and Marking Requirements for Cylinders.	Secs. 173.34 (c), 173.34 (e) (10), 173.302 (c) (3), (c) (5), 173.302 (e), 173.303 (d), 173.309, 178.2, 178.3, 178.35(f) (g) (h), 178.36 (e), 178.37 (e), 178.38 178.44 (s), 178.45 178.46 (m), 178.47 178.57(q), 178.59 178.60 (r), 178.61 178.68(n), 178.337, 178.338, 178.345.
	(e),	
	(n),	
	(p),	
	(n),	
	(p),	
2137-0034.....	Hazardous Materials Shipping Papers and Emergency 173.6, Response Information.	Part 172, Secs. 173.7 (a) (1), 173.8, 173.22 (a) (1), 173.56

		(b) (1), (d) (1), (e) (2), 173.150 (f) (3) (i), 174.24, 174.26 (b), 174.114, 175.30, 175.35, 175.703,
176.9,		176.24, 176.27,
176.30,		176.31, 176.36,
176.89,		176.90, 176.95, 177.817.
2137-0039.....	Hazardous Materials Incident Report.....	Secs. 171.15, 171.16.
2137-0051.....	Rulemaking and Exemptions Petitions.....	Part 106, Subpart B, Part 107, Subpart B, Secs. 106.31,
106.33,		107.3, 107.5, 107.7, 107.103, 107.105, 107.107, 107.109, 107.113, 107.117, 107.121, 107.123, 107.125, 107.201, 107.202, 107.203, 107.205, 107.209, 107.211, 107.215, 107.217, 107.219, 107.221, 107.223.
2137-0510.....	RAM Transportation Requirements.....	Part 173, Subpart I, Secs. 173.22 (c), 173.411, 173.415 (a), 173.416 (b), 173.417 (a) (5), (b) (3),
(4),		173.457 (b), 173.471 (a), (d), 173.472, 173.473 (a), (d), 173.476 (a), (b),
(c).		
2137-0542.....	Cryogenic Liquids Requirements.....	Secs. 173.318,
177.816,		177.840, 180.405.

2137-0557..... Approvals for Hazardous Materials.....	Secs.	107.401,
107.402,		107.403, 107.404, 107.405, 172.101 (1) (2), 172.102 (c) (1) (60), (c) (3) (B69), 173.2a (c) (4), 173.4 (c), 173.7 (a) (1),
173.21(f)(3)(h)(2)(i),		173.24 (e) (3) (iii), 173.51 (a),(b),
173.56		(a) (2), (b) (1),
(2),		(4), (c), (f), (g), (i), (j) (3), 173.124 (a) (1) (iii) (b),
(a)		(2) (iii) (d),
173.128		(d), 173.159 (f), 173.166, 173.171 (a), (c), 173.185 (d) (9), (ii), (iii), i, 173.214, 173.224 (d), 173.225 (b) (4), (c), 173.245 (a) (b), 173.300a, 173.300b, 173.305 (c) (1), 173.315 (i) (12), 173.334 (d), 173.340 (a), (b), (c) (4), 176.340 (c),
178.270-3		(f), 178.270-13 (d), 178.601 (e) (g) (7), (h), (k), 178.603
(b),		178.604 (b) (2), 178.605 (b), 178.606 (b), (c), 178.608 (b) (5), 178.801 (e) (2), (h), (i), 178.813

(c).

2137-0559..... Rail Carriers and Tank Car Tank Requirements..... Secs. 172.102 (c) (3)
 (B45), (B46), (B55),
 (B61), (B69), (B77),
 (B78), (B81), 173.10
 (b) (1), 173.31 (a)
 (2), (b) (6) (ii),
 173.247 (a), 174.9,
 174.20 (b), 174.50,
 174.61, 174.63 (d),
 174.81 Table note b,
 174.104 (c), (e),

(f),

174.114, 174.204 (a)
 (1), 179.3, 179.5,
 179.7(b)(2), (5)(d),
 179.22, 180.505,
 180.509, 180.515,
 180.517 (a), (b),
 180.519 (d).

2137-0572..... Testing Requirements for Non-Bulk Packaging..... Secs. 178.2 (c),
 178.601 (1).

2137-0582..... Container Certification Statement..... Secs. 176.27 (c),
 176.172 (c).

2137-0586..... Hazardous Materials Public Sector Training and Planning
 Grants. Part 110.

2137-0595..... Cargo Tank Motor Vehicles in Liquefied Compressed Gas Secs. 173.315 (h)
 (2),

Service.

178.337, 178.337-8,
 178.337-9, 180.405,
 180.416 (b) (d) (f)

(h)

(1).

 [Amdt. 171-111, 56 FR 66157, Dec. 20, 1991, as amended at 57 FR 1877,
 Jan. 16, 1992; Amdt. 171-121, 58 FR 51527, Oct. 1, 1993; Amdt. 171-137,
 61 FR 33254, June 26, 1996; 62 FR 51558, Oct. 1, 1997; 64 FR 51915,
 Sept. 27, 1999]

Editorial Note: For a document correcting Sec. 171.6, see 64 FR
 61220, Nov. 10, 1999.

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PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.7 Reference material.

(a) Matter incorporated by reference--(1) General. There is incorporated, by reference in parts 170-189 of this subchapter, matter referred to that is not specifically set forth. This matter is hereby made a part of the regulations in parts 170-189 of this subchapter. The matter subject to change is incorporated only as it is in effect on the date of issuance of the regulation referring to that matter. The material listed in paragraph (a)(3) has been approved for incorporation by reference by the Director of the Federal Register. Material is incorporated as it exists on the date of the approval and a notice of any change in the material will be published in the Federal Register. Matters referenced by footnote are included as part of the regulations of this subchapter.

(2) Accessibility of materials. All incorporated matter is available for inspection at:

(i) The Dockets Branch, room 8419, NASSIF Building, 400 7th Street, SW., Washington, DC 20590; and

(ii) The Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

(3) Table of material incorporated by reference. The following table sets forth material incorporated by reference. The first column lists the name and address of the organization from which the material is available and the name of the material. The second column lists the section(s) of this subchapter, other than Sec. 171.7, in which the matter is referenced. The second column is

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presented for information only and may not be all inclusive.

Source and name of material

49 CFR reference

Air Transport Association of America, 1301 Pennsylvania Avenue, N.W., Washington, DC 20004- 1707
ATA Specification No. 300 Packaging of Airline Supplies, Revision 19, July 31, 1996.	172.102
The Aluminum Association, 420 Lexington Avenue, New York, NY 10017	
Aluminum Standards and Data, Seventh Edition, June 1982.	172.102; 178..46 and 178.65
American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018	
ANSI/ASHRAE 15-94, Safety Code for Mechanical Refrigeration.	173.306
ANSI B16.5-77, Steel Pipe Flanges, Flanged Fittings.	178.345; 178.360
ANSI N14.1 Standard for Packaging of Uranium Hexafluoride for Transport, 1971, 1982, 1987 and 1990 Editions.	173.417; 173.420
American Pyrotechnics Association (APA), P.O. Box 213, Chestertown, MD 21620	
APA Standard 87-1, Standard for Construction and Approval for Transportation of Fireworks, Novelties, and Theatrical Pyrotechnics, January 23, 1998 version.	173.56
American Society of Mechanical Engineers, United Engineering Center, 354 47th Street, New York, NY 10017	
ASME Code, Sections II (Parts A and B), V, VIII (Division 1), and IX of 1992 Edition of American Society of Mechanical Engineers Boiler and Pressure Vessel Code and Addenda through December 31, 1993.	173.32; 173.306; 173.315; 173.318; 173.420; 178.245; 178.255; 178.270; 178.271; 178.272; 178.337; 178.338; 178.345; 178.346; 178.347; 178.348; 179.400; 180.407; 180.417
ASME Code, Section V (FR Nondestructive Examination), 1977.	180.407
ASME Code, Section IX (FR Welding and Brazing Qualification), 1977 and Addendum (1979).	178.245; 178.270; 178.337; 178.338
American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428	
Noncurrent ASTM Standards are available from: Engineering Societies Library, 354 E. 47th Street, New York, NY 10017	
ASTM A 20/A 20M-93a Standard Specification for	178.337-2; 179.102-4;

General Requirements for Steel Plates for Pressure Vessels.	179.102-17.
ASTM A 47-68 Malleable Iron Castings.....	179.200
ASTM A 240/A 240M-94b Standard Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels.	178.57; 178.358-5; 179.100-7; 179.100-10; 179.102-1; 179.102-4; 179.102-17; 179.200-7; 179.201-5; 179.220-7; 179.400-5.
ASTM A 242-81 Standard Specification for High-Strength Low-Alloy Structural Steel.	179.100
ASTM A 262-93a Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels.	179.100-7; 179.200-7; 179.201-4.
ASTM A 300-58 Steel Plates for Pressure Vessels for Service at Low Temperatures.	178.337
ASTM A 302/A 302M-93 Standard Specification for Pressure Vessel Plates, Alloy Steel, Manganese-Molybdenum and Manganese-Molybdenum Nickel.	179.100-7; 179.200-7; 179.220-7.
ASTM A 333-67 Seamless and Welded Steel Pipe for Low-Temperature Service.	178.45
ASTM A 366/A 366M-91 (1993)e1 Standard Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality.	178.601
ASTM A 370-94 Standard Test Methods and Definitions for Mechanical Testing of Steel Products.	179.102-1; 179.102-4; 179.102-17.
ASTM A 388-67 Ultrasonic Testing and Inspection of Heavy Steel Forging.	178.45
ASTM A 441-81 Standard Specification for High-Strength Low-Alloy Structural Manganese Vanadium Steel.	178.338
ASTM A 514-81 Standard Specification for High-Yield Strength Quenched and Tempered Alloy Steel Plate, Suitable for Welding.	178.338

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ASTM A 516/A 516M-90 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate and Lower- Temperature Service.	178.337-2; 179.100-7; 179.100-20; 179.102-1; 179.102-2; 179.102-4; 179.102-17; 179.200-7; 179.220-7.
ASTM A 537/A 537M-91 Standard Specification for Pressure Vessel Plates, Heat-Treated, Carbon-Manganese-Silicon Steel.	179.100-7; 179.102-4; 179.102-17.
ASTM A 568/A 568M-95 Standard Specification for Steel, Sheet, Carbon, and High-Strength, Low-	178.601

Alloy, Hot-Rolled and Cold-Rolled, General
Requirements for.

ASTM A 572-82 Standard Specification for High-Strength Low-Alloy Columbian-Vanadium Steels of Structural Quality.	178.338; 179.100
ASTM A 588-81 Standard Specification for High-Strength Low-Alloy Structural Steel with 50 Ksi Minimum Yield Point to 4 in. Thick.	179.100; 178.338
ASTM A 606-75 Standard Specification for Steel Sheet and Strip Hot-Rolled and Cold-Rolled, High-Strength, Low-Alloy, with Improved Atmospheric Corrosion Resistance, 1975 (Reapproved 1981).	178.338
ASTM A 612-72a High Strength Steel Plates for Pressure Vessels for Moderate and Lower Temperature Service.	178.337
ASTM A 633-79a Standard Specification for Normalized High-Strength Low-Alloy Structural Steel, 1979 Edition.	178.338
ASTM A 715-81 Standard Specification for Steel Sheet and Strip, Hot-Rolled, High-Strength, Low-Alloy with Improved Formability, 1981.	178.338
ASTM B 90-69 Magnesium Alloy Sheet and Plate...	178.251
ASTM B 162-93a Standard Specification for Nickel Plate, Sheet, and Strip.	179.200-7.
ASTM B 209-93 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.	179.100-7; 179.200-7; 179.220-7.
ASTM B 557-84 Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products.	178.46; 178.251.
ASTM B 580-79 Standard Specification for Anodic Oxide Coatings on Aluminum, 1979.	173.316; 173.318
ASTM D 56-97a Standard Test Method for Flash Point by Tag Closed Tester.	173.120
ASTM D 93-97 Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester.	173.120
ASTM D 445-88 Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity).	171.8
ASTM D 1200-88 Viscosity by Ford Viscosity Cup.	171.8
ASTM D 1838-64 Copper Strip Corrosion by Liquefied Petroleum (LP) Gases.	173.315
ASTM D 3278-96 Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus.	173.120
ASTM D 3828-97, Standard Test Methods for Flash Point by Small Scale Closed Tester.	173.120.
ASTM D 4206-96 Standard Test Method for Sustained Burning of Liquid Mixtures Using the Small Scale Open-Cup Apparatus.	173.120.
ASTM D 4359-90 Standard Test Method for	171.8

Determining Whether a Material is a Liquid or a Solid.

ASTM E 8-89 Tension Testing of Metallic Materials.	178.36; 178.37; 178.38; 178.39; 178.44; 178.45; 178.50; 178.51; 178.53; 178.55; 178.56; 178.57; 178.58; 178.59; 178.60; 178.61; 178.68; 178.251
ASTM E 23-60 Notched Bar Impact Testing of Metallic Materials.	178.57; 179.400
ASTM E 112-88 Standard Test Methods for Determining Average Grain Size.	178.44.
ASTM E 290-92 Standard Test Method for Semi-Guided Bend Test for Ductility of Metallic Materials.	178.46.
ASTM E 681-85 Standard Test Method for Concentration Limits of Flammability of Chemicals.	173.115
ASTM G 23-69 Standard Recommended Practice for Operating Light-and-Water Exposure Apparatus (Carbon-Arc Type) for Exposure of Nonmetallic Materials.	172.407; 172.519
ASTM G 26-70 Standard Recommended Practice for Operating Light-and-Water Exposure Apparatus (Xenon-Arc-Type) for Exposure of Nonmetallic Materials.	172.407; 172.519
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American Water Works Association, 1010 Vermont Avenue, NW., Suite 810, Washington, DC 20005	
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P.O. Box 400, Place de l'Aviation
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[Amdt. 171-111, 55 FR 52466, Dec. 21, 1990]

Editorial Note: For Federal Register citations affecting Sec. 171.7,
see the List of CFR Sections Affected in the Finding Aids section of
this volume.

Effective Date Note: At 64 FR 45396, Aug. 19, 1999, Sec. 171.7
paragraph (a)(3) was amended by adding an entry for ``Air Transport
Association of America'', effective Mar. 1, 2000.

[Code of Federal Regulations]
[Title 49, Volume 2, Parts 100 to 185]
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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.8 Definitions and abbreviations.

In this subchapter,

Aerosol means any non-refillable metal receptacle containing a gas compressed, liquefied or dissolved under pressure, the sole purpose of which is to expel a nonpoisonous (other than a Division 6.1 Packing Group III material) liquid, paste, or powder and fitted with a self-closing release device allowing the contents to be ejected by the gas.

Agricultural product means a hazardous material, other than a hazardous waste, whose end use directly supports the production of an agricultural commodity including, but not limited to a fertilizer, pesticide, soil amendment or fuel. An agricultural product is limited to a material in Class 3, 8 or 9, Division 2.1, 2.2, 5.1, or 6.1, or an ORM-D material.

Approval means a written authorization, including a competent authority approval, from the Associate Administrator to perform a function for which prior authorization by the Associate Administrator is required under subchapter C of this chapter.

Approved means approval issued or recognized by the Department unless otherwise specifically indicated in this subchapter.

Asphyxiant gas means a gas which dilutes or replaces oxygen normally in the atmosphere.

Atmospheric gases means air, nitrogen, oxygen, argon, krypton, neon and xenon.

Authorized Inspection Agency means: (1) A jurisdiction which has adopted and administers one or more sections of the ASME Boiler and Pressure Vessel Code as a legal requirement and has a representative serving as a member of the ASME Conference Committee; or (2) an insurance company which has been licensed or registered by the appropriate authority of a State of the United States or a Province of Canada to underwrite boiler and pressure vessel insurance in such State or Province.

Authorized Inspector means an Inspector who is currently commissioned by the National Board of Boiler and Pressure Vessel

Inspectors and employed as an Inspector by an Authorized Inspection Agency.

Bag means a flexible packaging made of paper, plastic film, textiles, woven material or other similar materials.

Bar means 1 BAR = 100 kPa (14.5 psi).

Barge means a non-selfpropelled vessel.

Bottle means an inner packaging having a neck of relatively smaller cross section than the body and an opening capable of holding a closure for retention of the contents.

Bottom shell means that portion of a tank car tank surface, excluding the head ends of the tank car tank, that lies within two feet, measured circumferentially, of the bottom longitudinal center line of the tank car tank.

Box means a packaging with complete rectangular or polygonal faces, made of metal, wood, plywood, reconstituted wood, fiberboard, plastic, or other suitable material. Holes appropriate to the size and use of the packaging, for purposes such as ease of handling or opening, or to meet classification requirements, are permitted as long as they do not compromise the integrity of the packaging during transportation, and are not otherwise prohibited in this subchapter.

Break-bulk means packages of hazardous materials that are handled individually, palletized, or unitized for purposes of transportation as opposed to bulk and containerized freight.

Btu means British thermal unit.

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Bulk packaging means a packaging, other than a vessel or a barge, including a transport vehicle or freight container, in which hazardous materials are loaded with no intermediate form of containment and which has:

(1) A maximum capacity greater than 450 L (119 gallons) as a receptacle for a liquid;

(2) A maximum net mass greater than 400 kg (882 pounds) and a maximum capacity greater than 450 L (119 gallons) as a receptacle for a solid; or

(3) A water capacity greater than 454 kg (1000 pounds) as a receptacle for a gas as defined in Sec. 173.115 of this subchapter.

Bureau of Explosives means the Bureau of Explosives (B of E) of the Association of American Railroads.

C means Celsius or Centigrade.

Captain of the Port (COTP) means the officer of the Coast Guard, under the command of a District Commander, so designated by the Commandant for the purpose of giving immediate direction to Coast Guard law enforcement activities within an assigned area. As used in this subchapter, the term Captain of the Port includes an authorized representative of the Captain of the Port.

Carfloat means a vessel that operates on a short run on an irregular basis and serves one or more points in a port area as an extension of a rail line or highway over water, and does not operate in ocean,

coastwise, or ferry service.

Cargo aircraft only means an aircraft that is used to transport cargo and is not engaged in carrying passengers. For purposes of this subchapter, the terms cargo aircraft only, cargo-only aircraft and cargo aircraft have the same meaning.

Cargo tank means a bulk packaging which:

(1) Is a tank intended primarily for the carriage of liquids or gases and includes appurtenances, reinforcements, fittings, and closures (for tank, see 49 CFR 178.345-1(c), 178.337-1, or 178.338-1, as applicable);

(2) Is permanently attached to or forms a part of a motor vehicle, or is not permanently attached to a motor vehicle but which, by reason of its size, construction or attachment to a motor vehicle is loaded or unloaded without being removed from the motor vehicle; and

(3) Is not fabricated under a specification for cylinders, portable tanks, tank cars, or multi-unit tank car tanks.

Cargo tank motor vehicle means a motor vehicle with one or more cargo tanks permanently attached to or forming an integral part of the motor vehicle.

Cargo vessel means: (1) Any vessel other than a passenger vessel; and

(2) Any ferry being operated under authority of a change of character certificate issued by a Coast Guard Officer-in-Charge, Marine Inspection.

Carrier means a person engaged in the transportation of passengers or property by:

- (1) Land or water, as a common, contract, or private carrier, or
- (2) Civil aircraft.

CC means closed-cup.

Character of vessel means the type of service in which the vessel is engaged at the time of carriage of a hazardous material.

Class means hazard class. See hazard class.

Class 1. See Sec. 173.50 of this subchapter.

Class 2. See Sec. 173.115 of this subchapter.

Class 3. See Sec. 173.120 of this subchapter.

Class 4. See Sec. 173.124 of this subchapter.

Class 5. See Sec. 173.128 of this subchapter.

Class 6. See Sec. 173.132 of this subchapter.

Class 7. See Sec. 173.403 of this subchapter.

Class 8. See Sec. 173.136 of this subchapter.

Class 9. See Sec. 173.140 of this subchapter.

Closure means a device which closes an opening in a receptacle.

COFC means container-on-flat-car.

Combination packaging means a combination of packaging, for transport purposes, consisting of one or more inner packagings secured in a non-bulk outer packaging. It does not include a composite packaging.

Combustible liquid. See Sec. 173.120 of this subchapter.

Compatibility group letter means a designated alphabetical letter used to categorize different types of explosive substances and articles for purposes of stowage and segregation. See Sec. 173.52 of this subchapter.

Competent Authority means a national agency responsible under its national law for the control or regulation of a particular aspect of the transportation of hazardous materials (dangerous goods). The term Appropriate Authority, as used in the ICAO Technical Instructions, has the same meaning as Competent Authority. For purposes of this subchapter, the Associate Administrator for Hazardous Materials Safety is the Competent Authority for the United States.

Composite packaging means a packaging consisting of an outer packaging and an inner receptacle, so constructed that the inner receptacle and the outer packaging form an integral packaging. Once assembled it remains thereafter an integrated single unit; it is filled, stored, shipped and emptied as such.

Compressed gas. See Sec. 173.115 of this subchapter.

Consumer commodity means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies or instrumentalities for consumption by individuals for purposes of personal care or household use. This term also includes drugs and medicines.

Containership means a cargo vessel designed and constructed to transport, within specifically designed cells, portable tanks and freight containers which are lifted on and off with their contents intact.

Corrosive material. See Sec. 173.136 of this subchapter.

Crate means an outer packaging with incomplete surfaces.

Crewmember means a person assigned to perform duty in an aircraft during flight time.

Cryogenic liquid. See Sec. 173.115(g) of this subchapter.

Cylinder means a pressure vessel designed for pressures higher than 40 psia and having a circular cross section. It does not include a portable tank, multi-unit tank car tank, cargo tank, or tank car.

Dangerous when wet material. See Sec. 173.124 of this subchapter.

Design Certifying Engineer means a person registered with the Department in accordance with subpart F of part 107 of this chapter who has the knowledge and ability to perform stress analysis of pressure vessels and to otherwise determine whether a cargo tank design and construction meets the applicable DOT specification. In addition, Design Certifying Engineer means a person who meets, at a minimum, any one of the following:

(1) Has an engineering degree and one year of work experience in cargo tank structural or mechanical design.

(2) Is currently registered as a professional engineer by the appropriate authority of a State of the United States or a Province of Canada.

(3) Has at least three years experience in performing the duties of a Design Certifying Engineer by September 1, 1991, and was registered

with the Department by December 31, 1995.

Designated facility means a hazardous waste treatment, storage, or disposal facility that has been designated on the manifest by the generator.

District Commander means the District Commander of the Coast Guard, or his authorized representative, who has jurisdiction in the particular geographical area.

Division means a subdivision of a hazard class.

DOD means the U.S. Department of Defense.

Domestic transportation means transportation between places within the United States other than through a foreign country.

Drum means a flat-ended or convex-ended cylindrical packaging made of metal, fiberboard, plastic, plywood, or other suitable materials. This definition also includes packagings of other shapes made of metal or plastic (e.g., round taper-necked packagings or pail-shaped packagings) but does not include cylinders, jerricans, wooden barrels or bulk packagings.

Elevated temperature material means a material which, when offered for transportation or transported in a bulk packaging:

(1) Is in a liquid phase and at a temperature at or above 100 deg.C (212 deg.F);

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(2) Is in a liquid phase with a flash point at or above 37.8 deg.C (100 deg.F) that is intentionally heated and offered for transportation or transported at or above its flash point; or

(3) Is in a solid phase and at a temperature at or above 240 deg.C (464 deg.F).

Engine means a locomotive propelled by any form of energy and used by a railroad.

EPA means U.S. Environmental Protection Agency.

Etiologic agent. See Sec. 173.134 of this subchapter.

EX number means a number, preceded by the prefix Ex-, which is assigned by the Associate Administrator for Hazardous Materials Safety to identify an explosive which has been approved. See Sec. 173.56 of this subchapter.

Exemption means a document issued under the authority of 49 U.S.C. 5117 by the Associate Administrator that authorizes a person to perform a function that is not otherwise authorized under this subchapter, subchapter C, or other regulations issued under 49 U.S.C. 5101-5127 (e.g., Federal Highway Administration routing).

Explosive. See Sec. 173.50 of this subchapter.

F means degree Fahrenheit.

Farmer means a person engaged in the production or raising of crops, poultry, or livestock.

Federal hazardous material transportation law means 49 U.S.C. 5101 et seq.

Ferry vessel means a vessel which is limited in its use to the carriage of deck passengers or vehicles or both, operates on a short run

on a frequent schedule between two points over the most direct water route, other than in ocean or coastwise service, and is offered as a public service of a type normally attributed to a bridge or tunnel.

Filling density has the following meanings:

(1) For compressed gases in cylinders, see Sec. 173.304(a)(2) table note 1.

(2) For compressed gases in tank cars, see Sec. 173.314(c) table note 1.

(3) For compressed gases in cargo tanks and portable tanks, see Sec. 173.315(a) table note 1.

(4) For cryogenic liquids in cylinders, except hydrogen, see Sec. 173.316(c)(1).

(5) For hydrogen, cryogenic liquid in cylinders, see Sec. 173.316(c)(3) table note 1.

(6) For cryogenic liquids in cargo tanks, see Sec. 173.318(f)(1).

(7) For cryogenic liquids in tank cars, see Sec. 173.319(d)(1).

Flammable gas. See Sec. 173.115 of this subchapter.

Flammable liquid. See Sec. 173.120 of this subchapter.

Flammable solid. See Sec. 173.124 of this subchapter.

Flash point. See Sec. 173.120 of this subchapter.

Freight container means a reusable container having a volume of 64 cubic feet or more, designed and constructed to permit being lifted with its contents intact and intended primarily for containment of packages (in unit form) during transportation.

Fuel tank means a tank other than a cargo tank, used to transport flammable or combustible liquid, or compressed gas for the purpose of supplying fuel for propulsion of the transport vehicle to which it is attached, or for the operation of other equipment on the transport vehicle.

Fumigated lading. See Secs. 172.302(g) and 173.9.

Gas means a material which has a vapor pressure greater than 300 kPa (43.5 psi) at 50 deg.C (122 deg.F) or is completely gaseous at 20 deg.C (68 deg.F) at a standard pressure of 101.3 kPa (14.7 psi).

General public means, for purposes of subpart I of part 172, and subpart I of part 173 of this subchapter, any person other than an occupationally exposed hazmat employee.

Gross weight or Gross mass means the weight of a packaging plus the weight of its contents.

Hazard class means the category of hazard assigned to a hazardous material under the definitional criteria of part 173 of this subchapter and the provisions of the Sec. 172.101 table. A material may meet the defining criteria for more than one hazard class but is assigned to only one hazard class.

Hazard zone means one of four levels of hazard (Hazard Zones A through D) assigned to gases, as specified in Sec. 173.116(a) of this subchapter, and one of two levels of hazards (Hazard Zones A and B) assigned to liquids that are poisonous by inhalation, as specified in Sec. 173.133(a) of this subchapter. A hazard zone is based on the LC50 value for

acute inhalation toxicity of gases and vapors, as specified in Sec. 173.133(a).

Hazardous material means a substance or material, which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated. The term includes hazardous substances, hazardous wastes, marine pollutants, and elevated temperature materials as defined in this section, materials designated as hazardous under the provisions of Sec. 172.101 of this subchapter, and materials that meet the defining criteria for hazard classes and divisions in part 173 of this subchapter.

Hazardous substance for the purposes of this subchapter, means a material, including its mixtures and solutions, that--

(1) Is listed in the appendix A to Sec. 172.101 of this subchapter;

(2) Is in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) listed in the appendix A to Sec. 172.101 of this subchapter; and

(3) When in a mixture or solution--

(i) For radionuclides, conforms to paragraph 7 of the appendix A to Sec. 172.101.

(ii) For other than radionuclides, is in a concentration by weight which equals or exceeds the concentration corresponding to the RQ of the material, as shown in the following table:

RQ pounds (kilograms)	Concentration by weight	
	Percent	PPM
5000 (2270).....	10	100,000
1000 (454).....	2	20,000
100 (45.4).....	0.2	2,000
10 (4.54).....	0.02	200
1 (0.454).....	0.002	20

The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance in appendix A to Sec. 172.101 of this subchapter, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

Hazardous waste, for the purposes of this chapter, means any material that is subject to the Hazardous Waste Manifest Requirements of the U.S. Environmental Protection Agency specified in 40 CFR part 262.

Hazmat employee means a person who is employed by a hazmat employer

and who in the course of employment directly affects hazardous materials transportation safety. This term includes an owner-operator of a motor vehicle which transports hazardous materials in commerce. This term includes an individual, including a self-employed individual, employed by a hazmat employer who, during the course of employment:

- (1) Loads, unloads, or handles hazardous materials;
- (2) Manufactures, tests, reconditions, repairs, modifies, marks, or otherwise represents containers, drums, or packagings as qualified for use in the transportation of hazardous materials;
- (3) Prepares hazardous materials for transportation;
- (4) Is responsible for safety of transporting hazardous materials;

or

- (5) Operates a vehicle used to transport hazardous materials.

Hazmat employer means a person who uses one or more of its employees in connection with: transporting hazardous materials in commerce; causing hazardous materials to be transported or shipped in commerce; or representing, marking, certifying, selling, offering, manufacturing, reconditioning, testing, repairing, or modifying containers, drums, or packagings as qualified for use in the transportation of hazardous materials. This term includes an owner-operator of a motor vehicle which transports hazardous materials in commerce. This term also includes any department, agency, or instrumentality of the United States, a State, a political subdivision of a State, or an Indian tribe engaged in an activity described in the first sentence of this definition.

Hermetically sealed means closed by fusion, gasketing, crimping, or equivalent means so that no gas or vapor can enter or escape.

IAEA means International Atomic Energy Agency.

IATA means International Air Transport Association.

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ICAO means International Civil Aviation Organization.

IMO means International Maritime Organization.

Infectious substance (etiologic agent). See Sec. 173.134 of this subchapter.

Inner packaging means a packaging for which an outer packaging is required for transport. It does not include the inner receptacle of a composite packaging.

Inner receptacle means a receptacle which requires an outer packaging in order to perform its containment function. The inner receptacle may be an inner packaging of a combination packaging or the inner receptacle of a composite packaging.

Intermediate bulk container (IBC) means a rigid or flexible portable packaging, other than a cylinder or portable tank, which is designed for mechanical handling. Standards for intermediate bulk containers manufactured in the United States are set forth in subparts N and O of part 178 of this subchapter.

Intermediate packaging means a packaging which encloses an inner packaging or article and is itself enclosed in an outer packaging.

Intermodal container means a freight container designed and

constructed to permit it to be used interchangeably in two or more modes of transport.

Intermodal portable tank or IM portable tank means a specific class of portable tanks designed primarily for international intermodal use.

International transportation means transportation--

(1) Between any place in the United States and any place in a foreign country;

(2) Between places in the United States through a foreign country; or

(3) Between places in one or more foreign countries through the United States.

Irritating material. See Sec. 173.132(a)(2) of this subchapter.

Jerrican means a metal or plastic packaging of rectangular or polygonal cross-section.

Limited quantity, when specified as such in a section applicable to a particular material, means the maximum amount of a hazardous material for which there is a specific labeling or packaging exception.

Liquid means a material, other than an elevated temperature material, with a melting point or initial melting point of 20 deg.C (68 deg.F) or lower at a standard pressure of 101.3 kPa (14.7 psi). A viscous material for which a specific melting point cannot be determined must be subjected to the procedures specified in ASTM D 4359 ``Standard Test Method for Determining Whether a Material is Liquid or Solid''.

Liquid phase means a material that meets the definition of liquid when evaluated at the higher of the temperature at which it is offered for transportation or at which it is transported, not at the 37.8 deg.C (100 deg.F) temperature specified in ASTM D 4359-84.

Magazine vessel means a vessel used for the receiving, storing, or dispensing of explosives.

Magnetic material. See Sec. 173.21(d) of this subchapter.

Marine pollutant, means a material which is listed in appendix B to Sec. 172.101 of this subchapter (also see Sec. 171.4) and, when in a solution or mixture of one or more marine pollutants, is packaged in a concentration which equals or exceeds:

(1) Ten percent by weight of the solution or mixture for materials listed in the appendix; or

(2) One percent by weight of the solution or mixture for materials that are identified as severe marine pollutants in the appendix.

Marking means a descriptive name, identification number, instructions, cautions, weight, specification, or UN marks, or combinations thereof, required by this subchapter on outer packagings of hazardous materials.

Material of trade means a hazardous material, other than a hazardous waste, that is carried on a motor vehicle--

(1) For the purpose of protecting the health and safety of the motor vehicle operator or passengers;

(2) For the purpose of supporting the operation or maintenance of a motor vehicle (including its auxiliary equipment); or

(3) By a private motor carrier (including vehicles operated by a rail carrier) in direct support of a principal

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business that is other than transportation by motor vehicle.

Material poisonous by inhalation means:

(1) A gas meeting the defining criteria in Sec. 173.115(c) of this subchapter and assigned to Hazard Zone A, B, C, or D in accordance with Sec. 173.116(a) of this subchapter;

(2) A liquid (other than as a mist) meeting the defining criteria in Sec. 173.132(a)(1)(iii) of this subchapter and assigned to Hazard Zone A or B in accordance with Sec. 173.133(a) of this subchapter; or

(3) Any material identified as an inhalation hazard by a special provision in column 7 of the Sec. 172.101 table.

Maximum Allowable Working Pressure or MAWP For DOT specification cargo tanks used to transport liquid hazardous materials, see Sec. 178.345-1(k).

Maximum capacity means the maximum inner volume of receptacles or packagings.

Maximum net mass means the allowable maximum net mass of contents in a single packaging, or as used in subpart M of part 178 of this subchapter, the maximum combined mass of inner packaging, and the contents thereof.

Metered delivery service means a cargo tank unloading operation conducted at a metered flow rate of 378.5 liters (100 gallons) per minute or less through an attached delivery hose with a nominal inside diameter of 3.175 centimeters (1 $\frac{1}{4}$ inches) or less.

Miscellaneous hazardous material. See Sec. 173.140 of this subchapter.

Mixture means a material composed of more than one chemical compound or element.

Mode means any of the following transportation methods; rail, highway, air, or water.

Motor vehicle includes a vehicle, machine, tractor, trailer, or semitrailer, or any combination thereof, propelled or drawn by mechanical power and used upon the highways in the transportation of passengers or property. It does not include a vehicle, locomotive, or car operated exclusively on a rail or rails, or a trolley bus operated by electric power derived from a fixed overhead wire, furnishing local passenger transportation similar to street-railway service.

Name of contents means the proper shipping name as specified in Sec. 172.101 of this subchapter.

Navigable waters means, for the purposes of this subchapter, waters of the United States, including the territorial seas.

Non-bulk packaging means a packaging which has:

(1) A maximum capacity of 450 L (119 gallons) or less as a receptacle for a liquid;

(2) A maximum net mass of 400 kg (882 pounds) or less and a maximum capacity of 450 L (119 gallons) or less as a receptacle for a solid; or

(3) A water capacity of 454 kg (1000 pounds) or less as a receptacle for a gas as defined in Sec. 173.115 of this subchapter.

Nonflammable gas. See Sec. 173.115 of this subchapter.

N.O.S. means not otherwise specified.

N.O.S. description means a shipping description from the Sec. 172.101 table which includes the abbreviation n.o.s.

NPT means an American Standard taper pipe thread conforming to requirements of Federal Standard H28, part II, section VII. See Sec. 171.7(d)(12).

NRC (non-reusable container) means a packaging (container) whose reuse is restricted in accordance with the provisions of Sec. 173.28 of this subchapter.

Occupationally exposed hazmat employee means a hazmat employee whose duties involve exposure to ionizing radiation.

Occupied caboose means a rail car being used to transport non-passenger personnel.

Officer in Charge, Marine Inspection means a person from the civilian or military branch of the Coast Guard designated as such by the Commandant and who under the supervision and direction of the Coast Guard District Commander is in charge of a designated inspection zone for the performance of duties with respect to the enforcement and administration of title 52, Revised Statutes, acts amendatory thereof or supplemental thereto, rules and regulations thereunder, and the inspection required thereby.

Offshore supply vessel means a cargo vessel of less than 500 gross tons that regularly transports goods, supplies or equipment in support of exploration or

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production of offshore mineral or energy resources.

Operator means a person who controls the use of an aircraft, vessel, or vehicle.

Organic peroxide. See Sec. 173.128 of this subchapter.

ORM means other regulated material. See Sec. 173.144 of this subchapter.

Outage or ullage means the amount by which a packaging falls short of being liquid full, usually expressed in percent by volume.

Outer packaging means the outermost enclosure of a composite or combination packaging together with any absorbent materials, cushioning and any other components necessary to contain and protect inner receptacles or inner packagings.

Overpack, except as provided in subpart K of part 178 of this subchapter, means an enclosure that is used by a single consignor to provide protection or convenience in handling of a package or to consolidate two or more packages. Overpack does not include a transport vehicle, freight container, or aircraft unit load device. Examples of overpacks are one or more packages:

(1) Placed or stacked onto a load board such as a pallet and secured by strapping, shrink wrapping, stretch wrapping, or other suitable means; or

(2) Placed in a protective outer packaging such as a box or crate.

Oxidizer. See Sec. 173.127 of this subchapter.

Oxidizing gas means a gas which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does.

Oxygen generator (chemical) means a device containing chemicals that upon activation release oxygen as a product of chemical reaction.

Package or Outside Package means a packaging plus its contents. For radioactive materials, see Sec. 173.403 of this subchapter.

Packaging means a receptacle and any other components or materials necessary for the receptacle to perform its containment function in conformance with the minimum packing requirements of this subchapter. For radioactive materials packaging, see Sec. 173.403 of this subchapter.

Packing group means a grouping according to the degree of danger presented by hazardous materials. Packing Group I indicates great danger; Packing Group II, medium danger; Packing Group III, minor danger. See Sec. 172.101(f) of this subchapter.

Passenger (With respect to vessels and for the purposes of part 176 only) means a person being carried on a vessel other than:

- (1) The owner or his representative;
- (2) The operator;

(3) A bona fide member of the crew engaged in the business of the vessel who has contributed no consideration for his carriage and who is paid for his services; or

(4) A guest who has not contributed any consideration directly or indirectly for his carriage.

Passenger-carrying aircraft means an aircraft that carries any person other than a crewmember, company employee, an authorized representative of the United States, or a person accompanying the shipment.

Passenger vessel means--

(1) A vessel subject to any of the requirements of the International Convention for the Safety of Life at Sea, 1974, which carries more than 12 passengers;

(2) A cargo vessel documented under the laws of the United States and not subject to that Convention, which carries more than 16 passengers;

(3) A cargo vessel of any foreign nation that extends reciprocal privileges and is not subject to that Convention and which carries more than 16 passengers; and

(4) A vessel engaged in a ferry operation and which carries passengers.

Person means an individual, firm, copartnership, corporation, company, association, joint-stock association, including any trustee, receiver, assignee, or similar representative thereof; or government, Indian tribe, or agency or instrumentality of any government or Indian tribe when it offers hazardous material for transportation in commerce or transports hazardous material to further a commercial enterprise, but such term does not include:

- (1) The United States Postal Service;

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(2) For the purposes of 49 U.S.C. 5123 and 5124, any agency or instrumentality of the Federal Government.

Placarded car means a rail car which is placarded in accordance with the requirements of part 172 of this subchapter except those cars displaying only the FUMIGATION placards as required by Sec. 172.510.

Poisonous gas. See Sec. 173.115 of this subchapter.

Poisonous materials. See Sec. 173.132 of this subchapter.

Portable tank means a bulk packaging (except a cylinder having a water capacity of 1000 pounds or less) designed primarily to be loaded onto, or on, or temporarily attached to a transport vehicle or ship and equipped with skids, mountings, or accessories to facilitate handling of the tank by mechanical means. It does not include a cargo tank, tank car, multi-unit tank car tank, or trailer carrying 3AX, 3AAX, or 3T cylinders.

Preferred route or Preferred highway is a highway for shipment of highway route controlled quantities of radioactive materials so designated by a State routing agency, and any Interstate System highway for which an alternative highway has not been designated by such State agency as provided by Sec. 177.825(b) of this subchapter.

Primary hazard means the hazard class of a material as assigned in the Sec. 172.101 table.

Private track or Private siding means track located outside of a carrier's right-of-way, yard, or terminals where the carrier does not own the rails, ties, roadbed, or right-of-way and includes track or portion of track which is devoted to the purpose of its user either by lease or written agreement, in which case the lease or written agreement is considered equivalent to ownership.

Proper shipping name means the name of the hazardous material shown in Roman print (not italics) in Sec. 172.101 of this subchapter.

P.s.i. or psi means pounds per square inch.

P.s.i.a. or psia means pounds per square inch absolute.

P.s.i.g. or psig means pounds per square inch gauge.

Public vessel means a vessel owned by and being used in the public service of the United States. It does not include a vessel owned by the United States and engaged in a trade or commercial service or a vessel under contract or charter to the United States.

Pyrophoric liquid. See Sec. 173.124(b) of this subchapter.

Radioactive materials. See Sec. 173.403 of this subchapter for definitions relating to radioactive materials.

Rail car means a car designed to carry freight or non-passenger personnel by rail, and includes a box car, flat car, gondola car, hopper car, tank car, and occupied caboose.

Railroad means a person engaged in transportation by rail.

Receptacle means a containment vessel for receiving and holding materials, including any means of closing.

Registered Inspector means a person registered with the Department in accordance with subpart F of part 107 of this chapter who has the

knowledge and ability to determine whether a cargo tank conforms with the applicable DOT specification. In addition, Registered Inspector means a person who meets, at a minimum, any one of the following:

- (1) Has an engineering degree and one year of work experience.
- (2) Has an associate degree in engineering and two years of work experience.
- (3) Has a high school diploma or General Equivalency Diploma) and three years of work experience.
- (4) Has at least three years experience in performing the duties of a Registered Inspector by September 1, 1991, and was registered with the Department by December 31, 1995.

Regulated medical waste. See Sec. 173.134 of this subchapter.

Reportable quantity (RQ) for the purposes of this subchapter means the quantity specified in column 2 of the appendix to Sec. 172.101 for any material identified in column 1 of the appendix.

Research means investigation or experimentation aimed at the discovery of new theories or laws and the discovery and interpretation of facts or revision of accepted theories or laws in the light of new facts.

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Residue means the hazardous material remaining in a packaging, including a tank car, after its contents have been unloaded to the maximum extent practicable and before the packaging is either refilled or cleaned of hazardous material and purged to remove any hazardous vapors.

RSPA means the Research and Special Programs Administration, U.S. Department of Transportation, Washington, DC 20590.

SADT means self-accelerated decomposition temperature. See Sec. 173.21(f) of this subchapter.

Salvage packaging means a special packaging conforming to Sec. 173.3 of this subchapter into which damaged, defective or leaking hazardous materials packages, or hazardous materials that have spilled or leaked, are placed for purposes of transport for recovery or disposal.

SCF (standard cubic foot) means one cubic foot of gas measured at 60 deg.F. and 14.7 psia.

Self-defense spray means an aerosol or non-pressurized device that:

- (1) Is intended to have an irritating or incapacitating effect on a person or animal; and
- (2) Meets no hazard criteria other than for Class 9 (for example, a pepper spray; see Sec. 173.140(a) of this subchapter) and, for an aerosol, Division 2.1 or 2.2 (see Sec. 173.115 of this subchapter), except that it may contain not more than two percent by mass of a tear gas substance (e.g., chloroacetophenone (CN) or 0-chlorobenzylmalonitrile (CS); see Sec. 173.132(a)(2) of this subchapter.)

Sheathing means a covering consisting of a smooth layer of wood placed over metal and secured to prevent any movement.

Shipping paper means a shipping order, bill of lading, manifest or

other shipping document serving a similar purpose and containing the information required by Secs. 172.202, 172.203 and 172.204.

Siftproof packaging means a packaging impermeable to dry contents, including fine solid material produced during transportation.

Single packaging means a non-bulk packaging other than a combination packaging.

Solid means a material which is not a gas or a liquid.

Solution means any homogeneous liquid mixture of two or more chemical compounds or elements that will not undergo any segregation under conditions normal to transportation.

Specification packaging means a packaging conforming to one of the specifications or standards for packagings in part 178 or part 179 of this subchapter.

Spontaneously combustible material. See Sec. 173.124(b) of this subchapter.

State means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Commonwealth of the Northern Mariana Islands, the Virgin Islands, American Samoa, Guam, or any other territory or possession of the United States designated by the Secretary.

State-designated route means a preferred route selected in accordance with U.S. DOT ``Guidelines for Selecting Preferred Highway Routes for Highway Route Controlled Quantities of Radioactive Materials'' or an equivalent routing analysis which adequately considers overall risk to the public.

Stowage means the act of placing hazardous materials on board a vessel.

Strong outside container means the outermost enclosure which provides protection against the unintentional release of its contents under conditions normally incident to transportation.

Subsidiary hazard means a hazard of a material other than the primary hazard. (See primary hazard).

Table in Sec. 172.101 or Sec. 172.101 table means the Hazardous Materials Table in Sec. 172.101 of this subchapter.

Technical name means a recognized chemical name or microbiological name currently used in scientific and technical handbooks, journals, and texts. Generic descriptions are authorized for use as technical names provided they readily identify the general chemical group, or microbiological group. Examples of acceptable generic chemical descriptions are organic phosphate compounds, petroleum aliphatic hydrocarbons and tertiary amines. For proficiency testing only, generic microbiological descriptions such as bacteria, mycobacteria, fungus, and

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viral samples may be used. Except for names which appear in subpart B of part 172 of this subchapter, trade names may not be used as technical names.

TOFC means trailer-on-flat-car.

Top shell means the tank car tank surface, excluding the head ends

and bottom shell of the tank car tank.

Trailership means a vessel, other than a carfloat, specifically equipped to carry motor transport vehicles and fitted with installed securing devices to tie down each vehicle. The term trailership includes Roll-on/Roll-off (RO/RO) vessels.

Train means one or more engines coupled with one or more rail cars, except during switching operations or where the operation is that of classifying and assembling rail cars within a railroad yard for the purpose of making or breaking up trains.

Trainship means a vessel other than a rail car ferry or carfloat, specifically equipped to transport railroad vehicles, and fitted with installed securing devices to tie down each vehicle.

Transport vehicle means a cargo-carrying vehicle such as an automobile, van, tractor, truck, semitrailer, tank car or rail car used for the transportation of cargo by any mode. Each cargo-carrying body (trailer, rail car, etc.) is a separate transport vehicle.

UFC means Uniform Freight Classification.

UN means United Nations.

UN standard packaging means a packaging conforming to standards in the UN Recommendations on the Transport of Dangerous Goods.

Unit load device means any type of freight container, aircraft container, aircraft pallet with a net, or aircraft pallet with a net over an igloo.

United States means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Commonwealth of the Northern Mariana Islands, the Virgin Islands, American Samoa, Guam, or any other territory or possession of the United States designated by the Secretary.

Vessel includes every description of watercraft, used or capable of being used as a means of transportation on the water.

Viscous liquid means a liquid material which has a measured viscosity in excess of 2500 centistokes at 25 deg.C. (77 deg.F.) when determined in accordance with the procedures specified in ASTM Method D 445-72 ``Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)'' or ASTM Method D 1200-70 ``Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup.''

Volatility refers to the relative rate of evaporation of materials to assume the vapor state.

Water reactive material. See Sec. 173.124(c) of this subchapter.

Water resistant means having a degree of resistance to permeability by and damage caused by water in liquid form.

Wooden barrel means a packaging made of natural wood, of round cross-section, having convex walls, consisting of staves and heads and fitted with hoops.

W.T. means watertight.

[Amdt. 171-32, 41 FR 15994, Apr. 15, 1976]

Editorial Note: For Federal Register citations affecting Sec. 171.8, see the List of CFR Sections Affected appearing in the Finding Aids

section of this volume.

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.9 Rules of construction.

(a) In this subchapter, unless the context requires otherwise:

- (1) Words imparting the singular include the plural;
- (2) Words imparting the plural include the singular; and
- (3) Words imparting the masculine gender include the feminine;

(b) In this subchapter, the word: (1) ``Shall'' is used in an imperative sense;

(2) ``Must'' is used in an imperative sense;

(3) ``Should'' is used in a recommendatory sense;

(4) ``May'' is used in a permissive sense to state authority or permission to do the act described, and the words ``no person may * * *'' or ``a person may not * * *'' means that no person is required, authorized, or permitted to do the act described; and

(5) ``Includes'' is used as a word of inclusion not limitation.

[Amdt. 171-32, 41 FR 15996, Apr. 15, 1976, as amended by Amdt. 171-32A, 41 FR 40630, Sept. 20, 1976; Amdt. 171-121, 58 FR 51528, Oct. 1, 1993]

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF
TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.10 Units of measure.

(a) General. To ensure compatibility with international transportation standards, most units of measure in this subchapter are expressed using the International System of Units ('`SI'' or metric). Where SI units appear, they are the regulatory standard. U.S. standard or customary units, which appear in parentheses following the SI units, are for information only and are not intended to be the regulatory standard.

(b) Abbreviations for SI units of measure generally used throughout this subchapter are as shown in paragraph (c) of this section. Customary units shown throughout this subchapter are generally not abbreviated.

(c) Conversion values. (1) Conversion values are provided in the following table and are based on values provided in ASTM E 380-89, ``Standard for Metric Practice.''

(2) If an exact conversion is needed, the following conversion table should be used.

Table of Conversion Factors for SI Units

Measurement	SI to U.S. standard	U.S. standard to SI
Activity.....	1 TBq=27 Ci.....	1 Ci=0.037 TBq.
Length.....	1 cm=0.3937008 in.....	1 in=2.540000 cm
	1 m=3.280840 ft.....	1 ft=0.3048000 m
Thickness.....	1 mm=0.03937008 in.....	1 in=25.40000 mm
Mass (weight).....	1 kg=2.204622 lb.....	1 lb=0.4535924 kg
	1 gr=0.03527397 oz.....	1 oz=28.34952 gr
Pressure.....	1 kPa=0.1450377 psi.....	1 psi=6.894757 kPa

	1 Bar=100 kPa=14.504 psi...	1 psi=0.06895 Bar
	1 kPa=7.5 mm Hg.....	
Radiation level.....	1 Sv/hr=100 rem/hr.....	1 rem/hr=0.01 Sv/hr
Volume (liquid).....	1 l=0.2641720 gal.....	1 gal=3.785412 l
	1 ml=0.03381402 oz.....	1 oz=29.57353 ml
	1 m\3\=35.31466 ft\3\.....	1 ft\3\=0.02831685 m\3\
Density.....	1 kg/m\3\=0.06242797 lb/	1 lb/ft\3\=16.01846 kg/m\3\
	ft\3\.	

 Abbreviation for units of measure are as follows:

Unit of measure and abbreviation:

(SI): millimeter, mm; centimeter, cm; meter, m; gram, g; kilogram, kg; kiloPascal, kPa; liter, L; milliliter, ml; cubic meter, m\3\; Terabecquerel, TBq; Gigabecquerel, GBq; millisievert, mSv;

(U.S.): Inch, in; foot, ft; ounce, oz; pound, lb; pounds per square inch, psi; gallon, gal; cubic feet, ft \3\;

Curie, Ci; millicurie, mCi; millirem, mrem.

[Amdt. 171-111, 56 FR 66159, Dec. 20, 1991, as amended by Amdt. 171-136, 60 FR 49108, Sept. 21, 1995; Amdt. 171-135, 60 FR 50302, Sept. 28, 1995]

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.11 Use of ICAO Technical Instructions.

Notwithstanding the requirements of parts 172 and 173 of this subchapter, a hazardous material may be transported by aircraft, and by motor vehicle either before or after being transported by aircraft, in accordance with the ICAO Technical Instructions if the hazardous material:

(a) Is packaged, marked, labeled, classified, described and certified on a shipping paper and otherwise in a condition for shipment as required by the ICAO Technical Instructions;

(b) Is within the quantity limits prescribed for transportation by either passenger-carrying or cargo aircraft, as appropriate, as specified in the ICAO Technical Instructions;

(c) Is not a forbidden material or package according to Sec. 173.21 of this subchapter or column 3 of the Sec. 172.101 table; and

(d) Fulfills the following additional requirements as applicable:

(1) For a material that meets the definition of a hazardous substance as defined in this subchapter, the shipping paper and package markings must conform to the provisions in Sec. 172.203(c) and 172.324, respectively, of this subchapter.

(2) When a hazardous material, which is subject to the requirements of the ICAO Technical Instructions, is also a hazardous waste as defined in this subchapter:

(i) The word ``Waste'' must precede the proper shipping name on shipping papers and package markings; and

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(ii) It must comply with Sec. 172.205 with respect to the hazardous waste manifests.

(3) When a hazardous material is not subject to the requirements of the ICAO Technical Instructions, it must be transported as required by this subchapter.

(4) When a hazardous material that is regulated by this subchapter

for transportation by highway is transported by motor vehicle on a public highway under the provisions of this section, the following requirements apply:

(i) The motor vehicle must be placarded in accordance with subpart F of part 172 of this subchapter; and

(ii) The shipping paper may include an indication that the shipment is being made under the provisions of this section or the letters ``ICAO.''

(5) If a liquid or solid material in a package meets the definition of a poison according to this subchapter, and the fact that it is a poison is not disclosed in the shipping name or by a class entry, an indication that the material is a poison shall be entered on the shipping paper in association with the basic description. For transportation by motor vehicle, this indication must be made by entering the word ``Poison or Toxic'' on the shipping paper in association with the basic description.

(6) For radioactive materials:

(i) Shipping papers for highway route controlled quantity radioactive materials shipments must meet the requirements of Sec. 172.203(d)(4) of this subchapter,

(ii) Competent authority certification and any necessary revalidation for Type B, Type B(U), Type B(M), and fissile materials packages must be obtained from the appropriate authorities as specified in Secs. 173.471, 173.472 and 173.473 of this subchapter, and all requirements of the certificates and revalidations must be met,

(iii) Except for limited quantities of Class 7 (radioactive) material, the provisions of Secs. 172.204(c)(4), 173.448(e), (f) and (g)(3) of this subchapter apply.

(iv) Limited quantities of radioactive materials must meet the provisions of Sec. 173.421, Sec. 173.424 or Sec. 173.426 as appropriate of this subchapter, and

(v) Type A package contents shall be limited in accordance with Sec. 173.431 of this subchapter.

(7) If a United States variation is indicated in the ICAO Technical Instructions for any provision governing the transport of the hazardous material, the hazardous material is transported in conformance with that variation.

(8) Abbreviations may not be used in shipping paper entries or package markings unless they are specifically authorized by this subchapter. ICAO class or division numbers are not considered to be abbreviations.

(9) When a hazardous material, which is subject to the requirements of the ICAO Technical Instructions, is a material poisonous by inhalation (see Sec. 171.8 of this subchapter)--

(i) The shipping description must include the words ``Toxic Inhalation Hazard'' or ``Poison-Inhalation Hazard'' or ``Inhalation Hazard'', as required in Sec. 172.203(m) of this subchapter;

(ii) The material must be packaged in accordance with the requirements of this subchapter; and

(iii) The package must be marked in accordance with Sec. 172.313 of

this subchapter and labeled with ``POISON INHALATION HAZARD'' or ``POISON GAS'', as appropriate, in accordance with subpart E of part 172 of this subchapter.

(10) Shipments of hazardous materials under this section must conform to the requirements for emergency response information as prescribed in subpart G of part 172 of this subchapter.

(11) Packages of Class 1 (explosive) materials must be marked in accordance with Sec. 172.320 of this subchapter.

(12) If an ammonium nitrate fertilizer or ammonium nitrate mixed fertilizer, must not meet the definition and criteria of a Class 1 (explosive) material.

(13) Transportation of marine pollutants, as defined in Sec. 171.8 of this subchapter, in bulk packagings must conform to the requirements of Secs. 172.203(1) and 172.322 of this subchapter.

(14) Except as provided for limited quantities of compressed gases in containers of not more than 4 fluid ounces capacity under Sec. 173.306(a)(1) of this

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subchapter, aerosols must meet the definition for ``Aerosol'' in Sec. 171.8.

(15) A chemical oxygen generator is forbidden for transportation aboard a passenger-carrying aircraft and must be approved, classed, described and packaged in accordance with the requirements of this subchapter for transportation on cargo-only aircraft. A chemical oxygen generator (spent) is forbidden for transportation on aircraft.

(16) A cylinder containing Oxygen, compressed, may not be transported on a passenger-carrying aircraft or in an inaccessible cargo location aboard a cargo-only aircraft unless it is packaged as required by Part 173 and Part 178 of this subchapter and is placed in an overpack or outer packaging that satisfies the requirements of Special Provision A52 in Sec. 172.102.

[Amdt. 171-69, 47 FR 54821, Dec. 6, 1982]

Editorial Note: For Federal Register citations affecting Sec. 171.11, see the List of CFR Sections Affected in the Finding Aids section of this volume.

Effective Date Note: At 64 FR 45396, Aug. 19, 1999, Sec. 171.11 was amended by revising paragraph (d)(15) and adding paragraph (d)(16), effective Mar. 1, 2000. For the convenience of the user, the superseded text is set forth as follows:

Sec. 171.11 Use of ICAO Technical Instructions.

* * * * *

(d) * * *

(15) An oxygen generator (chemical) must be classed, approved, and described in accordance with the requirements of this subchapter.

[Code of Federal Regulations]

[Title 49, Volume 2, Parts 100 to 185]

[Revised as of October 1, 1999]

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[CITE: 49CFR171.12]

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.12 Import and export shipments.

(a) Importer's responsibility. Except in the case of a shipment from Canada conforming to Sec. 171.12a of this subchapter, each person importing a hazardous material into the United States shall provide the shipper and the forwarding agent at the place of entry into the United States timely and complete information as to the requirements of this subchapter that will apply to the shipment of the material within the United States. The shipper, directly or through the forwarding agent at the place of entry, shall provide the initial carrier in the United States the certificate of compliance required by Sec. 172.204 of this subchapter. The carrier may not accept the material for transportation unless the required certification is provided.

(b) IMDG Code. The IMDG Code sets forth descriptions, classifications, packagings, labeling and vessel stowage requirements. Notwithstanding the provisions of this subchapter, a material which is packaged, marked, classed, labeled, placarded, described, stowed and segregated, and certified (including a container packing certification, if applicable) in accordance with the IMDG Code, and otherwise conforms to the requirements of this section, may be offered and accepted for transportation and transported within the United States. The following conditions and limitations apply:

(1) The provisions of this paragraph (b) apply only if all or part of the transportation is by vessel.

(2) A number of materials listed in the IMDG Code are not subject to the requirements of this subchapter. The provisions of this subchapter do not apply to materials listed in the IMDG Code which are not designated as hazardous materials under this subchapter. These materials may, however, be transported in the U.S. when described, marked and labeled in accordance with the IMDG Code. 0

(3) A material designated as a hazardous material under this subchapter which is not subject to the requirements of the IMDG Code may not be transported under the provisions of this section.

(4) A forbidden material or package according to Sec. 173.21 of this

subchapter or column 3 of the Sec. 172.101 table may not be transported under the provisions of this section.

(5) Except for packagings conforming to the requirements of Section 26 of the General Introduction to the IMDG Code, bulk packagings must conform to the requirements of this subchapter.

(6) For export, packagings must conform to the applicable requirements in Secs. 173.24, 173.24a and 173.28 of this subchapter.

(7) A Class 1 material must be classed and approved under the procedures in subpart C of part 173 of this subchapter

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and conform to the requirements of Sec. 172.320 and part 176 of this subchapter.

(8) When a hazardous material, which is subject to the requirements of the IMDG Code, is a material poisonous by inhalation (see Sec. 171.8 of this subchapter)--

(i) The shipping description must include the words 'Toxic Inhalation Hazard' or 'Poison-Inhalation Hazard' or 'Inhalation Hazard', as required in Sec. 172.203(m) of this subchapter;

(ii) The material must be packaged in accordance with the requirements of this subchapter;

(iii) Except as provided in paragraph (b)(8)(iv) of this section, the package must be marked in accordance with Sec. 172.313 of this subchapter and labeled and placarded with 'POISON INHALATION HAZARD' or 'POISON GAS', as appropriate, in accordance with subparts E and F, respectively, of part 172 of this subchapter;

(iv) Until October 1, 2001, the package may be labeled in accordance with the IMDG Code if transported in a closed transport vehicle or freight container marked with identification numbers for the materials in any quantity in the manner specified in paragraphs (c) and (c)(3) of Sec. 172.313 of this subchapter and placarded as required by subpart F of part 172 of this subchapter.

(9) Class 7 materials must conform to the provisions of paragraph (d) of this section.

(10) For a hazardous waste, as defined in this subchapter--

(i) The word 'Waste' must precede the proper shipping name on shipping papers and packages; and

(ii) The requirements of Sec. 172.205 of this subchapter with respect to hazardous waste manifests are applicable.

(11) A hazardous substance as defined in this subchapter must conform to the requirements of Secs. 172.203(c) and 172.324 of this subchapter.

(12) A poisonous material must conform to the requirements of Sec. 172.203(m) of this subchapter.

(13) [Reserved]

(14) Any ammonium nitrate fertilizer or ammonium nitrate mixed fertilizer must not meet the definition and criteria of a Class 1 (explosive) material.

(15) Cylinders not manufactured to DOT specifications must conform

to the requirements of Sec. 173.301(i) and (j) of this subchapter.

(16) Shipments of hazardous materials under this section must conform to the requirements for emergency response information as prescribed in subpart G of part 172 of this subchapter.

(17) Except as provided for limited quantities of compressed gases in containers of not more than 4 fluid ounces capacity under Sec. 173.306(a)(1) of this subchapter, aerosols must meet the definition for ``Aerosol'' in Sec. 171.8.

(18) A chemical oxygen generator must be approved in accordance with the requirements of this subchapter. A chemical oxygen generator and a chemical oxygen generator (spent) must be classed, described and packaged in accordance with the requirements of this subchapter.

(c) Use of IMDG Code in port areas. Section 171.2 notwithstanding, a hazardous material (other than Division 1.1 or 1.2 or Class 7) being imported into or exported from the United States or passing through the United States in the course of being shipped between places outside the United States may be offered and accepted for transportation and transported by motor vehicle within a single port area (including contiguous harbors) when packaged, marked, classed, labeled, stowed and segregated in accordance with the IMDG Code, if the hazardous material is offered and accepted in accordance with the requirements of subparts C and F of part 172 of this subchapter pertaining to shipping papers and placarding and otherwise conforms to the applicable requirements of part 176 of this subchapter. The requirement in Sec. 172.201(d) of this subchapter for an emergency telephone number does not apply to shipments made in accordance with the IMDG Code if the hazardous material:

(1) Is not offloaded from the vessel;

(2) Is offloaded between ocean vessels at a U.S. port facility without being transported by public highway.

(d) Use of IAEA regulations for Class 7 (radioactive) materials. Class 7 (radioactive) materials being imported into, or exported from, the United States, or passing through the United States in the course of being shipped between

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places outside the United States, may be offered and accepted for transportation when packaged, marked, labeled, and otherwise prepared for shipment in accordance with IAEA ``Regulations for the Safe Transport of Radioactive Materials, Safety Series No. 6,' ' if:

(1) Highway route controlled quantities (see Sec. 173.403 of this subchapter) are shipped in accordance with Secs. 172.203(d)(4), 172.507 and 173.22(c) of this subchapter;

(2) For fissile materials and Type B packages, the competent authority certification and any necessary revalidation is obtained from the appropriate competent authorities as specified in Secs. 173.471, 173.472 and 173.473 of this subchapter and all requirements of the certificates and revalidations are met;

(3) Type A package contents are limited in accordance with Sec. 173.431 of this subchapter;

(4) The country of origin for the shipment has adopted the IAEA ``Regulations for the Safe Transport of Radioactive Materials, Safety Series No. 6'';

(5) The requirements of Secs. 173.448(e), 173.448(f), and 173.448(g)(3) of this subchapter are fulfilled, when applicable; and

(6) Shipments comply with the requirements for emergency response information prescribed in subpart G of part 172 of this subchapter.

[Amdt. 171-111, 55 FR 52472, Dec. 21, 1990]

Editorial Note: For Federal Register citations affecting Sec. 171.12, see the List of CFR Sections Affected in the Finding Aids section of this volume.

Effective Date Note: At 64 FR 45396, Aug. 19, 1999, Sec. 171.12 was amended by revising paragraph (b)(18), effective Mar. 1, 2000. For the convenience of the user, the superseded text is set forth as follows:

Sec. 171.12 Import and export shipments.

* * * * *

(b) * * *

(18) An oxygen generator (chemical) must be classed, approved, and described in accordance with the requirements of this subchapter.

* * * * *

[Code of Federal Regulations]

[Title 49, Volume 2, Parts 100 to 185]

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.12a Canadian shipments and packagings.

(a) Scope and applicability. This section sets forth provisions for the transportation by rail or highway of shipments of hazardous materials which conform to the regulations of the Government of Canada but which may differ from the requirements of this subchapter with regard to hazard communication, classification or packaging. Except as provided in paragraph (b)(5)(iv) of this section, the provisions apply only to shipments which originate in Canada and either terminate in the U.S. or transit the U.S. to a Canadian or foreign destination, and to the return to Canada of empty bulk packages containing residues of hazardous materials which originally were imported into the U.S. Reciprocal provisions, applicable to exports from the U.S., appear in the regulations of the Government of Canada.

(b) Conditions and limitations. Notwithstanding the requirements of parts 172, 173, and 178 of this subchapter, and subject to the limitations of paragraph (a) of this section, a hazardous material that is classed, marked, labeled, placarded, described on a shipping paper, and packaged in accordance with the Transportation of Dangerous Goods (TDG) Regulations issued by the Government of Canada may be offered for transportation and transported to or through the United States by motor vehicle or rail car. Copies of the TDG Regulations may be obtained from the Canadian Government Publishing Centre, Ottawa, Ontario K1A 0S9; Telephone (819) 956-4800. The following conditions and limitations apply:

(1) A number of materials listed in the TDG Regulations may not be subject to the requirements of this subchapter. The provisions of this subchapter do not apply to materials listed in the TDG Regulations which are not designated as hazardous materials under this subchapter. These materials may, however, be transported in the U.S. when described, marked and labeled in accordance with the TDG Regulations.

(2) A material designated as a hazardous material under this subchapter which is not subject to the requirements of the TDG Regulations may not

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be transported under the provisions of this section.

(3) A forbidden material or package according to Sec. 173.21 of this subchapter or column 3 of the Sec. 172.101 table may not be transported under the provisions of this section.

(4) A Class 1 material must be classed and approved under the procedures in subpart C of part 173 of this subchapter, and packages of Class 1 materials must be marked in accordance with Sec. 172.320 of this subchapter.

(5) When a hazardous material, which is a material poisonous by inhalation under the provisions of this subchapter (see Sec. 171.8 of this subchapter), is subject to the requirements of the TDG Regulations--

(i) The shipping description must include the words 'Toxic Inhalation Hazard' or 'Poison Inhalation Hazard' or 'Inhalation Hazard', as required in Sec. 172.203(m) of this subchapter;

(ii) The material must be packaged in accordance with the requirements of this subchapter;

(iii) Except as provided in paragraph (b)(5)(iv) of this section and for a package containing anhydrous ammonia, the package must be marked in accordance with Sec. 172.313 of this subchapter and labeled and placarded with 'POISON INHALATION HAZARD' or 'POISON GAS', as appropriate, in accordance with subparts E and F, respectively, of part 172 of this subchapter. For shipments of anhydrous ammonia, the shipping paper must contain an indication that the markings, labels and placards have been applied in conformance with the TDG Regulations and this paragraph (b)(5);

(iv) Until October 1, 2001, the package may be transported to or from the U.S. while labeled in accordance with the TDG Regulations if transported in a closed transport vehicle or freight container marked with identification numbers for the materials in any quantity in the manner specified in paragraphs (c) and (c)(3) of Sec. 172.313 of this subchapter and placarded as required by subpart F of part 172 of this subchapter.

(6) Required shipping descriptions and package markings must be in English. Abbreviations may not be used unless specifically authorized by this subchapter. Identification numbers must be preceded by 'UN' or 'NA'. The use of an identification number preceded by 'PIN' is not authorized.

(7) Shipments must conform to the requirements for emergency response information in subpart G of part 172 of this subchapter.

(8) A Class 7 material must conform to the provisions of Sec. 171.12(d) of this subchapter;

(9) For a hazardous waste as defined in this subchapter--

(i) The word 'Waste' must precede the proper shipping name on shipping papers and packages; and

(ii) The requirements of Sec. 172.205 of this subchapter with respect to hazardous waste manifests are applicable;

(10) A hazardous substance as defined in this subchapter must conform to the requirements of Secs. 172.203(c) and 172.324 of this subchapter; and

(11) A poisonous material must conform to the requirements of Sec. 172.203(m) of this subchapter.

(12) [Reserved]

(13) When the provisions of this subchapter require that a DOT specification or UN standard packaging must be used for a hazardous material, a packaging authorized by the TDG Regulations may be used only if it corresponds to the DOT specification or UN packaging authorized by this subchapter. Cylinders not manufactured to DOT specifications must conform to the requirements of Sec. 173.301(i) and (j) of this subchapter.

(14) Any ammonium nitrate fertilizer or ammonium nitrate mixed fertilizer must not meet the definition and criteria of a Class 1 (explosive) material.

(15) Transportation of marine pollutants, as defined in Sec. 171.8 of this subchapter, must conform to the requirements of Secs. 172.203(l) and 172.322 of this subchapter.

(16) Except as provided for limited quantities of compressed gases in containers of not more than 4 fluid ounces capacity under Sec. 173.306(a)(1) of this subchapter, aerosols must meet the definition for ``Aerosol'' in Sec. 171.8.

(17) A chemical oxygen generator must be approved in accordance with the requirements of this subchapter. A chemical oxygen generator and a

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chemical oxygen generator (spent) must be classed, described and packaged in accordance with the requirements of this subchapter.

[Amdt. 171-111, 55 FR 52473, Dec. 21, 1990, as amended at 56 FR 66160, Dec. 20, 1991; 57 FR 45453, Oct. 1, 1992; Amdt. 171-116, 57 FR 52935, Nov. 5, 1992; Amdt. 171-153, 62 FR 24700, May 6, 1997; 62 FR 30770, June 5, 1997; 64 FR 10753, Mar. 5, 1999; 64 FR 45396, Aug. 19, 1999; 64 FR 50262, Sept. 16, 1999; 64 FR 51720, Sept. 24, 1999; 64 FR 51915, Sept. 27, 1999]

Effective Date Note: At 64 FR 45396, Aug. 19, 1999, Sec. 171.12a paragraph (b)(17) was revised, effective Mar. 1, 2000. For the convenience of the user, the superseded text is set forth as follows:

Sec. 171.12a Canadian shipments and packagings.

* * * * *

(b) * * *

(17) An oxygen generator (chemical) must be classed, approved, and described in accordance with the requirements of this subchapter.

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.14 Transitional provisions for implementing certain requirements.

General. The purpose of the provisions of this section is to provide an orderly transition to certain new requirements so as to minimize any burdens associated with them.

(a) Previously filled packages--(1) Packages filled prior to October 1, 1991. Notwithstanding the marking and labeling provisions of subparts D and E, respectively, of part 172, and the packaging provisions of part 173 and subpart B of part 172 of this subchapter, a package may be offered for transportation and transported prior to October 1, 2001, if it--

(i) Conforms to the old requirements of this subchapter in effect on September 30, 1991;

(ii) Was filled with a hazardous material prior to October 1, 1991;

(iii) Is marked ``Inhalation Hazard'' if appropriate, in accordance with Sec. 172.313 of this subchapter or Special Provision 13, as assigned in the Sec. 172.101 table; and

(iv) Is not emptied and refilled on or after October 1, 1991.

(2) Non-bulk packages filled prior to October 1, 1996.

Notwithstanding the packaging provisions of subpart B of part 172 and the packaging provisions of part 173 of this subchapter with respect to UN standard packagings, a non-bulk package other than a cylinder may be offered for transportation and transported domestically prior to October 1, 1999, if it--

(i) Conforms to the requirements of this subchapter in effect on September 30, 1996;

(ii) Was filled with a hazardous material prior to October 1, 1996; and

(iii) Is not emptied and refilled on or after October 1, 1996.

(b) Transitional placarding provisions. Until October 1, 2001, placards which conform to specifications for placards in effect on September 30, 1991, or placards specified in the December 21, 1990 final rule may be used, for highway transportation only, in place of the placards specified in subpart F of part 172 of this subchapter, in

accordance with the following table:

Placard Substitution Table

Hazard class or division No.	Current placard name	Old (Sept. 30, 1991) placard name
Division 1.1.....	Explosives 1.1.	Explosives A.
Division 1.2.....	Explosives 1.2.	Explosives A.
Division 1.3.....	Explosives 1.3.	Explosives B.
Division 1.4.....	Explosives 1.4.	Dangerous.
Division 1.5.....	Explosives 1.5.	Blasting agents.
Division 1.6.....	Explosives 1.6.	Dangerous.
Division 2.1.....	Flammable gas..	Flammable gas.
Division 2.2.....	Nonflammable gas.	Nonflammable gas.
Division 2.3\1\.....	Poison gas.....	Poison gas.
Class 3.....	Flammable.....	Flammable.
Combustible liquid.....	Combustible....	Combustible.
Division 4.1.....	Flammable solid	Flammable solid.
Division 4.2.....	Spontaneously combustible.	Flammable solid.
Division 4.3.....	Dangerous when wet.	Flammable solid W.
Division 5.1.....	Oxidizer.....	Oxidizer.
Division 5.2.....	Organic peroxide.	Organic peroxide.
Division 6.1, (inhalation hazard, Zone A or B)\1\.	Poison inhalation hazard.	Poison.

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Division 6.1, PG I (other than Zone A or B inhalation hazard), PG II, or PG III.	Posion.....	Poison.
Class 7.....	Radioactive....	Radioactive.
Class 8.....	Corrosive.....	Corrosive.
Class 9.....	Class 9.....	(none required).

\1\ For materials poisonous by inhalation, by all modes of transportation, until October 1, 2001, placards may be used that conform to specifications for placards (1) in effect on September 30, 1991, (2) specified in the December 21, 1990 final rule, or (3) specified in the July 22, 1997 final rule.

(c) Non-specification fiber drums. A non-specification fiber drum with a removable head is authorized for a liquid hazardous material in Packing Group III that is not poisonous by inhalation for which the

packaging was authorized under the requirements of part 172 or part 173 of this subchapter in effect on September 30, 1991. This authorization expires on the date on which funds are authorized to be appropriated to carry out chapter 51 of title 49, United States Code (related to transportation of hazardous materials), for fiscal years beginning after September 30, 1997. Information concerning this funding authorization date may be obtained by contacting the Office of the Associate Administrator for Hazardous Materials Safety.

(d) A final rule published in the Federal Register on March 5, 1999, effective October 1, 1999, resulted in revisions to this subchapter. During the transition period provided in paragraph (d)(1) of this section, a person may elect to comply with either the applicable requirements of this subchapter in effect on September 30, 1999, or the requirements of this subchapter in the March 5, 1999 final rule, in effect on October 1, 1999.

(1) Transition dates. The effective date of the March 5, 1999 final rule is October 1, 1999. A delayed compliance date of October 1, 2000 is authorized. On October 1, 2000, all applicable regulatory requirements adopted in the March 5, 1999 final rule in effect on October 1, 1999 must be met.

(2) Intermixing old and new requirements. Prior to the transition date in paragraph (d)(1) of this section, it is recommended that the hazard communication requirements be consistent where practicable, i.e., marking, labeling, placarding, and shipping paper descriptions should conform to either the old requirements of this subchapter in effect on September 30, 1999, or new requirements of this subchapter in the March 5, 1999 final rule, in effect on October 1, 1999, without intermixing of communication elements. However, intermixing is permitted, during the applicable transition period, for packaging, hazard communication, and handling provisions, as follows:

(i) If either shipping names or identification numbers are identical, a shipping paper may display the old shipping description even if the package is marked and labeled under the new shipping description;

(ii) If either shipping names or identification numbers are identical, a shipping paper may display the new shipping description even if the package is marked and labeled under the old shipping description; and

(iii) Either old or new placards may be used regardless of whether old or new shipping descriptions and package markings are used.

(3) Until October 1, 2003, the KEEP AWAY FROM FOOD labeling and placarding requirements in effect on September 30, 1999, may continue to be used in place of the new requirements for Division 6.1, Packing Group III materials.

[Amdt. 171-131, 59 FR 67406, Dec. 29, 1994, as amended by Amdt. 171-132, 60 FR 26799, 26800, May 18, 1995; Amdt. 171-138, 60 FR 48786, Sept. 20, 1995; Amdt. 171-139, 61 FR 7958, Feb. 29, 1996; Amdt. 171-150, 62 FR 1227, Jan. 8, 1997; Amdt. 171-153, 62 FR 24700, May 6, 1997; 62 FR 29676, June 2, 1997; 62 FR 39404, July 22, 1997; 63 FR 52847, Oct. 1, 1998; 64

FR 10753, Mar. 5, 1999; 64 FR 50263, Sept. 16, 1999; 64 FR 51915, Sept. 27, 1999]

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TITLE 49--TRANSPORTATION

CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.15 Immediate notice of certain hazardous materials incidents.

(a) At the earliest practicable moment, each carrier who transports hazardous materials (including hazardous wastes) shall give notice in accordance with paragraph (b) of this section after each incident that occurs during the course of transportation (including loading, unloading and temporary storage) in which--

(1) As a direct result of hazardous materials--

(i) A person is killed; or

(ii) A person receives injuries requiring his or her hospitalization; or

(iii) Estimated carrier or other property damage exceeds \$50,000; or

(iv) An evacuation of the general public occurs lasting one or more hours; or

(v) One or more major transportation arteries or facilities are closed or shut down for one hour or more; or

(vi) The operational flight pattern or routine of an aircraft is altered; or

(2) Fire, breakage, spillage, or suspected radioactive contamination occurs involving shipment of radioactive material (see also Secs. 174.45, 176.48, and 177.807 of this subchapter); or

(3) Fire, breakage, spillage, or suspected contamination occurs involving shipment of infectious substances (etiologic agents); or

(4) There has been a release of a marine pollutant in a quantity exceeding 450 L (119 gallons) for liquids or 400 kg (882 pounds) for solids; or

(5) A situation exists of such a nature (e.g., a continuing danger to life exists at the scene of the incident) that, in the judgment of the carrier, it should be reported to the Department even though it does not meet the criteria of paragraph (a) (1), (2) or (3) of this section.

(b) Except for transportation by aircraft, each notice required by paragraph (a) of this section shall be given to the Department by telephone (toll-free) on 800-424-8802. Notice involving shipments transported by aircraft must be given to the nearest FAA Civil Aviation

Security Office by telephone at the earliest practical moment after each incident in place of the notice to the Department. Notice involving etiologic agents may be given to the Director, Centers for Disease Control, U.S. Public Health Service, Atlanta, Ga. (800) 232-0124, in place of the notice to the Department or (toll call) on 202-267-2675. Each notice must include the following information:

- (1) Name of reporter.
 - (2) Name and address of carrier represented by reporter.
 - (3) Phone number where reporter can be contacted.
 - (4) Date, time, and location of incident.
 - (5) The extent of injuries, if any.
 - (6) Classification, name, and quantity of hazardous materials involved, if such information is available.
 - (7) Type of incident and nature of hazardous material involvement and whether a continuing danger to life exists at the scene.
- (c) Each carrier making a report under this section shall also make the report required by Sec. 171.16.

Note: Under 40 CFR 302.6 EPA requires persons in charge of facilities (including transport vehicles, vessels and aircraft) to report any release of a hazardous substance in a quantity equal to or greater than its reportable quantity, as soon as that person has knowledge of the release, to the U.S. Coast Guard National Response Center at (toll free) 800-424-8802 or (toll) 202-267-2675.

[Amdt. 171-7, 35 FR 16837, Oct. 3, 1970]

Editorial Note: For Federal Register citations affecting Sec. 171.15, see the List of CFR Sections Affected appearing in the Finding Aids section of this volume.

[Code of Federal Regulations]

[Title 49, Volume 2, Parts 100 to 185]

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Secs. 171.17-171.18 [Reserved]

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CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.19 Approvals or authorizations issued by the Bureau of Explosives.

Effective December 31, 1998, approvals or authorizations issued by the Bureau of Explosives (BOE), other than those issued under part 179 of this subchapter, are no longer valid.

[63 FR 37459, July 10, 1998]

[Code of Federal Regulations]

[Title 49, Volume 2, Parts 100 to 185]

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CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.20 Submission of Examination Reports.

(a) When it is required in this subchapter that the issuance of an approval by the Associate Administrator for Hazardous Materials Safety be based on an examination by the Bureau of Explosives (or any other test facility recognized by RSPA), it is the responsibility of the applicant to submit the results of the examination to the Associate Administrator for Hazardous Materials Safety.

(b) Applications for approval submitted under paragraph (a) of this section, must be submitted to the Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Washington, DC 20590-0001.

(c) Any applicant for an approval aggrieved by an action taken by the Associate Administrator for Hazardous Materials Safety, under this subpart may file an appeal with the Administrator, RSPA within 30 days of service of notification of a denial.

[Amdt. 171-54, 45 FR 32692, May 19, 1980, as amended by Amdt. 171-66, 47 FR 43064, Sept. 30, 1982; Amdt. 171-109, 55 FR 39978, Oct. 1, 1990; Amdt. 171-111, 56 FR 66162, Dec. 20, 1991]

[Code of Federal Regulations]

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CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 171--GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS--Table of Contents

Sec. 171.21 Assistance in investigations and special studies.

(a) A carrier who is responsible for reporting an incident under the provisions of Sec. 171.16 shall make all records

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and information pertaining to the incident available to an authorized representative or special agent of the Department of Transportation upon request. The carrier shall give an authorized representative or special agent of the Department of Transportation reasonable assistance in the investigation of the incident.

(b) If the Department of Transportation makes an inquiry to a carrier of hazardous materials in connection with a study of incidents, the carrier shall--

(1) Respond to the inquiry within 30 days after its receipt or within such other time as the inquiry may specify; and

(2) Provide full, true, and correct answers to any questions included in the inquiry.

[Amdt. 171-101, 54 FR 25813, June 19, 1989]